

=> d his

(FILE 'HOME' ENTERED AT 12:01:24 ON 01 AUG 2006)

FILE 'REGISTRY' ENTERED AT 12:01:35 ON 01 AUG 2006

L1 STRUCTURE UPLOADED

L2 3 S L1

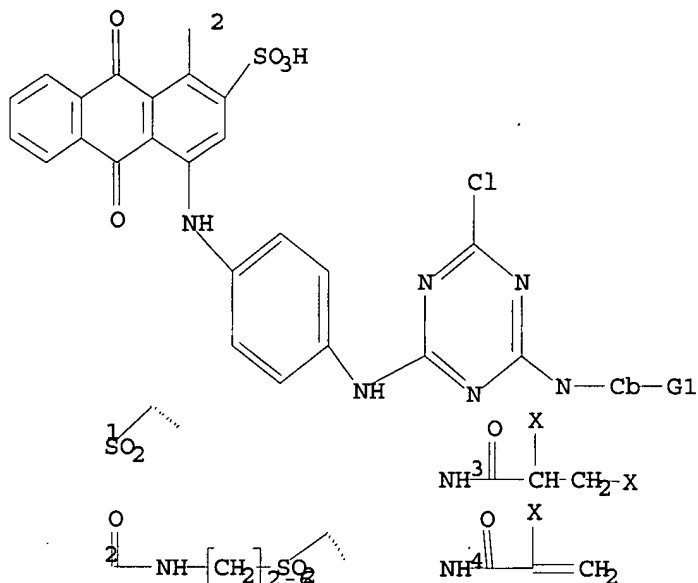
L3 17 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:03:08 ON 01 AUG 2006

L4 9 S L3

=> d que l4 stat

L1 STR



G1 [01], [02], [03], [04]

Structure attributes must be viewed using STN Express query preparation.

L3 17 SEA FILE=REGISTRY SSS FUL L1

L4 9 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-9 bib abs hitstr

L4 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:429623 CAPLUS  
 DN 142:483395  
 TI Method of dyeing or printing textile fiber materials using reactive dyes  
 IN Schmiedl, Juergen; Mundle, Wolfgang  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005045125	A1	20050519	WO 2004-EP52742	20041101
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRAI EP 2003-104150 A 20031111

OS MARPAT 142:483395

AB A method for dyeing or printing textile fiber materials comprises treatment of fiber by reactive dye containing anionic group followed by aftertreatment with compound which reduces the ionic character of the anionic group in the dye, and with  $\geq 1$  nucleophilic compound. The described method yields dyeings or prints having deep hues and very good fastness properties.

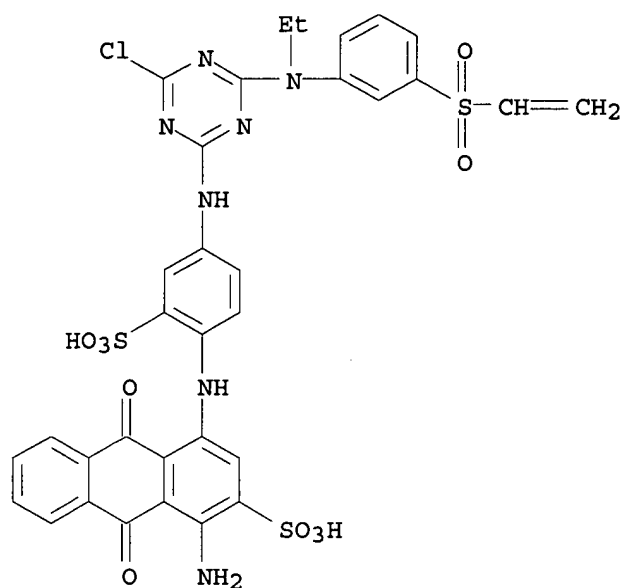
IT 704893-00-5

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)

(dye; dyeing or printing textile fiber with reactive anionic dyes combined with aftertreatment by metal salts and nucleophiles to obtain improved wet fastness and deep hues)

RN 704893-00-5 CAPLUS

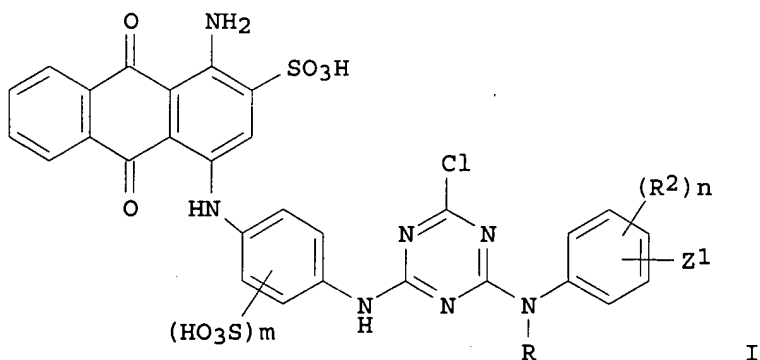
CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[3-(ethenylsulfonyl)phenyl]ethylamino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)



RE.CNT 5        THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

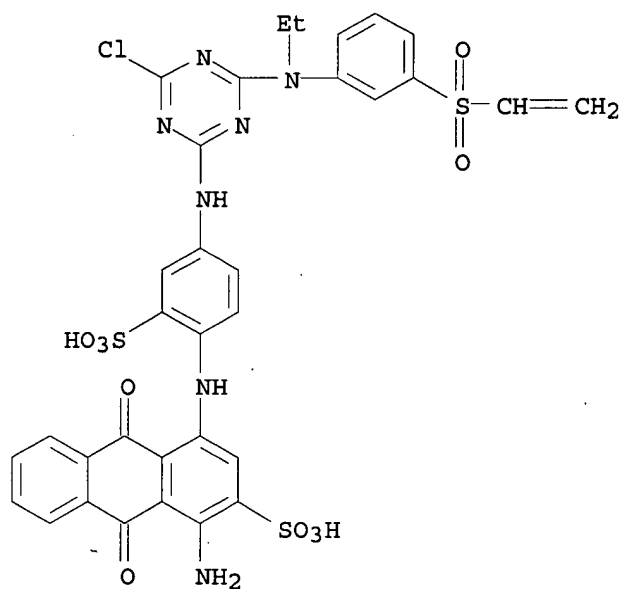
L4 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:493794 CAPLUS  
 DN 141:55763  
 TI Reactive dyes for dyeing or printing synthetic fibers and their preparation  
 IN Schmiedl, Juergen; Schoehn, Damien; Koch, Klaus  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004050769	A2	20040617	WO 2003-EP50878	20031124
	WO 2004050769	A3	20050526		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003294033	A1	20040623	AU 2003-294033	20031124
	EP 1567599	A2	20050831	EP 2003-789448	20031124
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016841	A	20051018	BR 2003-16841	20031124
	CN 1720299	A	20060111	CN 2003-80104773	20031124
	JP 2006508225	T2	20060309	JP 2004-556327	20031124
	US 2006016027	A1	20060126	US 2005-536679	20050527
PRAI	EP 2002-406046	A	20021202		
	WO 2003-EP50878	W	20031124		
OS	MARPAT 141:55763				
GI					



AB The reactive dyes I (R1 = (un)substituted C1-4 alkyl; R2 = halogen, C1-4 alkyl, C1-4 alkoxy or sulfo; Z1 = -SO2Y, -CONH(CH2)kSO2Y, -NHCOCH(Hal)CH2Hal, -NHCOC(Hal):CH2; Hal = chlorine or bromine; Y = vinyl, -CH2CH2U; U = a group removable under alkaline conditions; k = 2-6, n = 0-2; m = 0 or 1) are suitable for dyeing or printing cellulose-containing fiber materials, preferably natural or synthetic polyamide fibers to give good fastness properties.

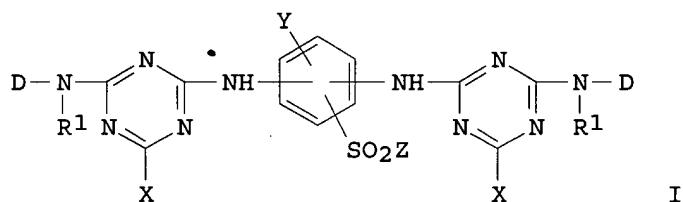
IT 704893-00-5P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of reactive dyes for dyeing or printing synthetic fibers)  
RN 704893-00-5 CAPLUS  
CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[3-(ethenylsulfonyl)phenyl]ethylamino]-1,3,5-triazin-2-yl]amino]-2-sulfonylphenyl]amino]-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1987:638574 CAPLUS  
 DN 107:238574  
 TI Reactive dyes for cotton  
 IN Kato, Yoshiaki  
 PA Mitsubishi Chemical Industries Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62172062	A2	19870729	JP 1986-13375	19860124
	JP 06062873	B4	19940817		
PRAI	JP 1986-13375		19860124		

GI



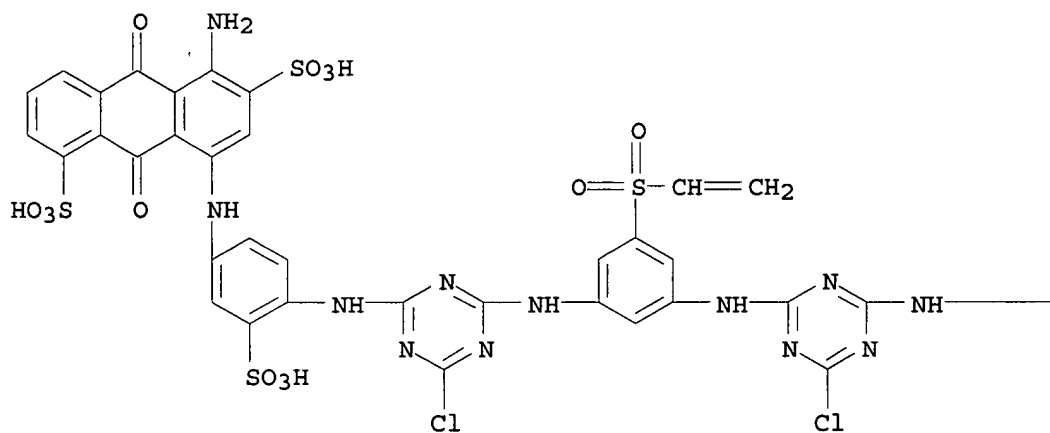
AB The title dyes were prepared having the general formula I [D = monoazo, polyazo, metal-containing azo, anthraquinone, phthalocyanine, formazan dye residue; R1 = H, (un)substituted alkyl; X = halogen; Y = H, halogen, (un)substituted alkyl; Z = CH:CH2, CH2CH2OSO3H]. 3,5-(H2N)2C6H3SO2CH2CH2OSO3H was condensed 1:2 (molar) with 2-[4-(2,4-dichloro-s-triazin-6-ylamino)-2-methylphenylazo]naphthalene-4,8-disulfonic acid and salted to give the corresponding I, yellow on cotton. The dyes prepared can be used with disperse dyes in 1-bath-1-step dyeing of polyester-cotton blends.

IT 111363-26-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye, for cotton)

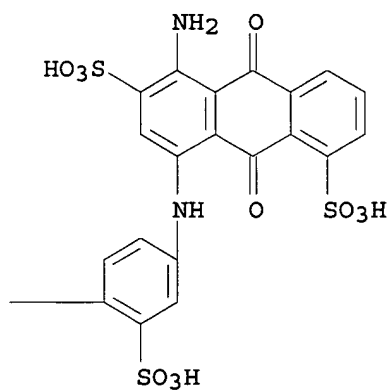
RN 111363-26-9 CAPLUS

CN 1,6-Anthracenedisulfonic acid, 8,8'-[[5-(ethenylsulfonyl)-1,3-phenylene]bis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(3-sulfo-4,1-phenylene)imino]]bis[5-amino-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)

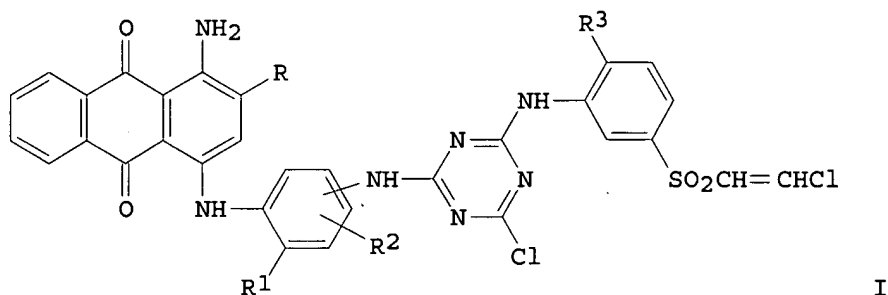
PAGE 1-A



PAGE 1-B

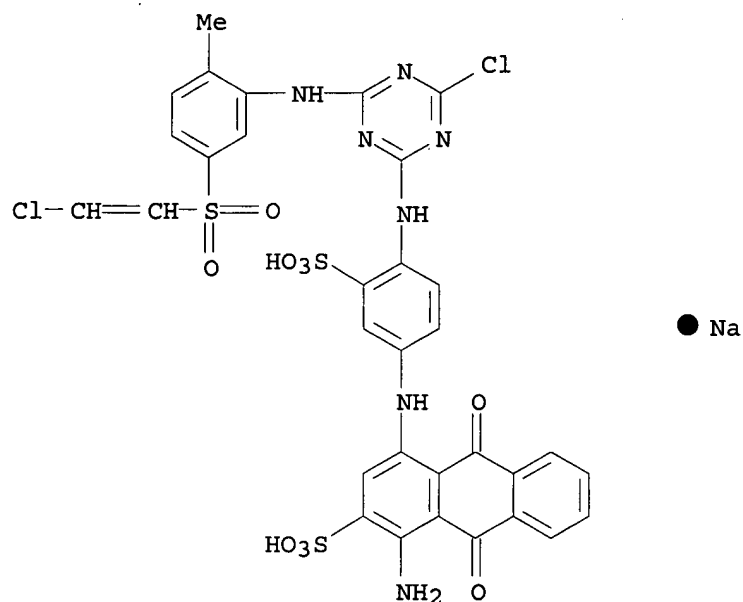


L4 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1986:111322 CAPLUS  
 DN 104:111322  
 TI Reactive dyes with  $\beta$ -chlorovinylsulfonyl groups. VII. Synthesis of anthraquinone dyes with  $\beta$ -chlorovinyl groups  
 AU Stefaniak, Stanislaw  
 CS Zakl. Chem. "Organika-Zachem", Bydgoszcz, Pol.  
 SO Chemia Stosowana (1984), 28(3-4), 449-58  
 CODEN: CHSWAP; ISSN: 0376-0898  
 DT Journal  
 LA Polish  
 GI



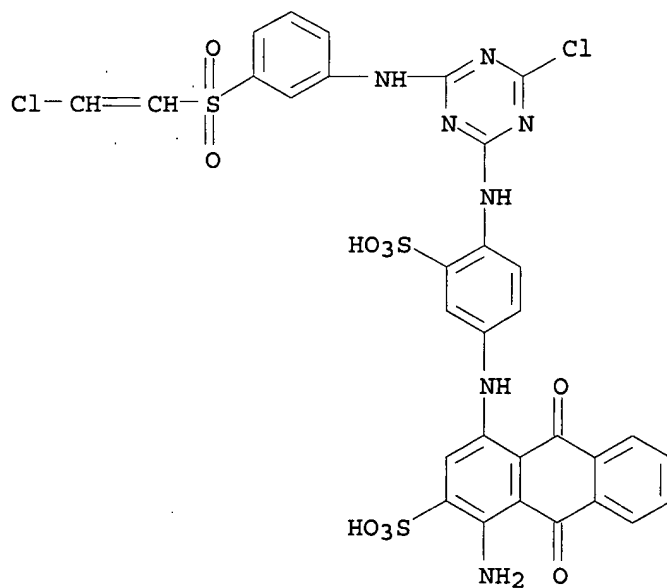
AB The synthesis of 13 I (R, R1, R2 = H, SO3Na; R3 = H, Me, OMe) from the appropriate aminophenylantraquinonesulfonates and aminophenyl chlorovinyl sulfones and cyanuric chloride [108-77-0] was described. I, reddish blue to greenish blue on cotton, had good fastness to acid, alkali, perspiration, washing at  $\leq 95^\circ$ , dry rubbing, and light.  
 IT 100849-08-9P 100849-17-0P 100849-18-1P  
 100849-19-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and fastness properties of, on cotton)  
 RN 100849-08-9 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[5-[(2-chloroethenyl)sulfonyl]-2-methylphenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]amino]-9,10-dihydro-9,10-dioxo-, monosodium salt (9CI) (CA INDEX NAME)





RN 100849-17-0 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[3-[(2-chloroethenyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

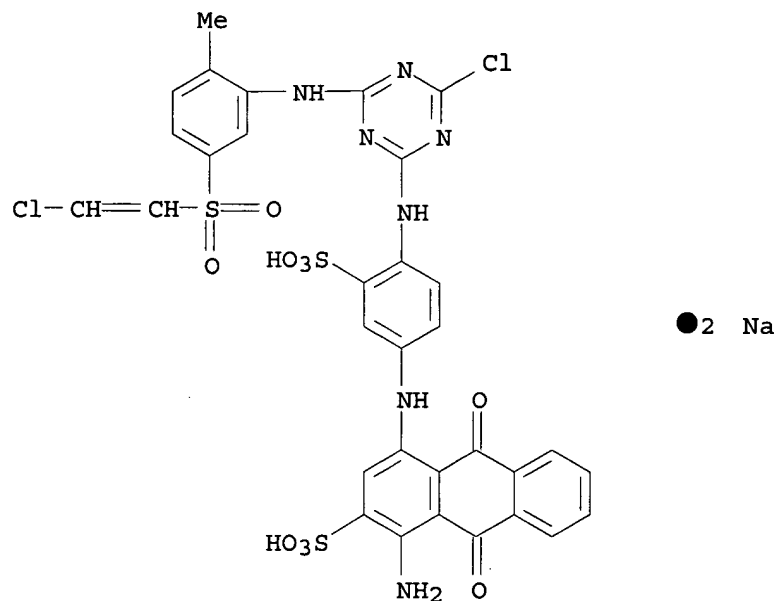
PAGE 1-A



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RN 100849-18-1 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[5-[(2-chloroethenyl)sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

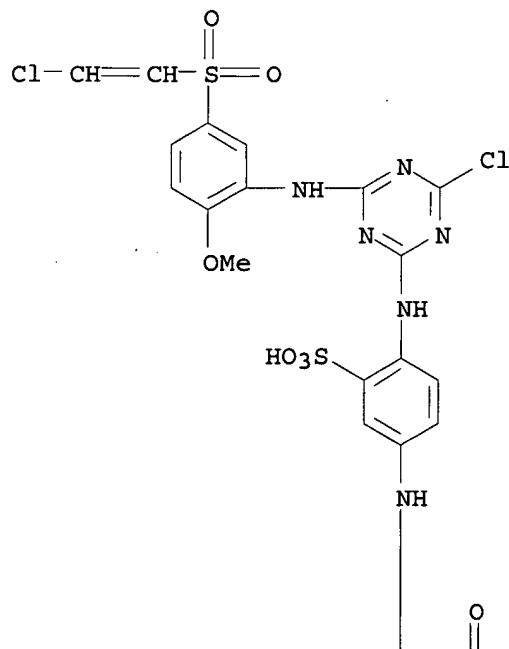
chloroethenyl] sulfonyl]-2-methylphenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)



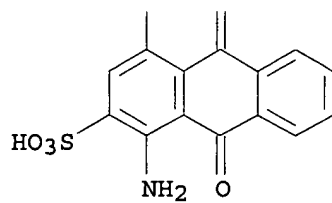
RN 100849-19-2 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[[[4-[[[4-chloro-6-[[5-[(2-chloroethenyl)sulfonyl]-2-methoxyphenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



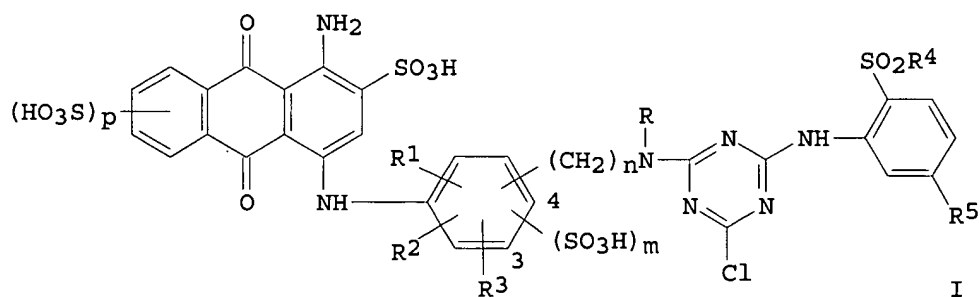
PAGE 2-A



●2 Na

L4 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1982:440314 CAPLUS  
 DN 97:40314  
 TI Reactive anthraquinone dyes  
 PA Nippon Kayaku Co., Ltd., Japan  
 SO Jpn. Kokai Tokyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57042985	A2	19820310	JP 1980-115948	19800825
PRAI	JP 1980-115948		19800825		
GI					



AB Fiber-reactive dyes of free acid form I ( $R = H, Me, Et$ ;  $R_1, R_2, R_3 = H, Me, Et, MeO, \text{halogen}$ ;  $R_4 = CH_2CH_2OSO_3H, CH_2CH_2SSO_3H, CH_2CH_2OP(OH)_3, CH_2CH_2Cl, CH:CH_2$ ;  $R_5 = H, Cl, SO_3H, m = 0, 1, 2$ ;  $n = 0, 1$ ;  $p = 0, 1$ ) were prepared and used for dyeing cotton, rayon, and polyamide fibers in blue shades. For example, cyanuric chloride [108-77-0] was condensed with o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OSO<sub>3</sub>H [81092-83-3] and then 1-amino-4-(4-amino-3-sulfoanilino)anthraquinone-2-sulfonic acid [81-69-6] and salted to give I [3-(SO<sub>3</sub>H)<sub>m</sub> bonding, 4-(CH<sub>2</sub>)<sub>n</sub>NR- bonding;  $R = R_1 = R_2 = R_3 = R_5 = H$ ;  $R_4 = CH_2CH_2OSO_3H$ ;  $n = p = 0$ ;  $m = 1$ ; Na salt] [82381-72-4], blue on cotton.

IT 82381-75-7

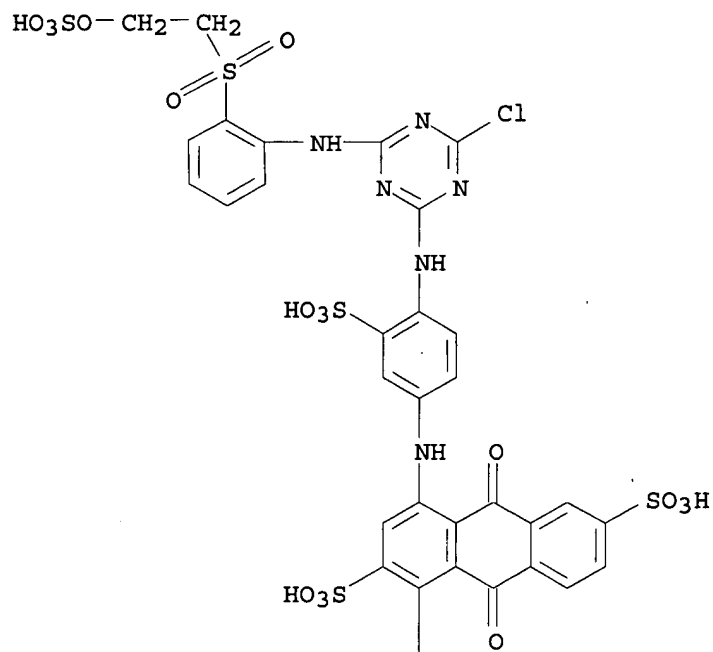
RL: MSC (Miscellaneous)

(dyes, for cotton and rayon and polyamide fibers)

RN 82381-75-7 CAPLUS

CN 2,6-Anthracenedisulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[2-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulphophenyl]amino]-9,10-dihydro-9,10-dioxo-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



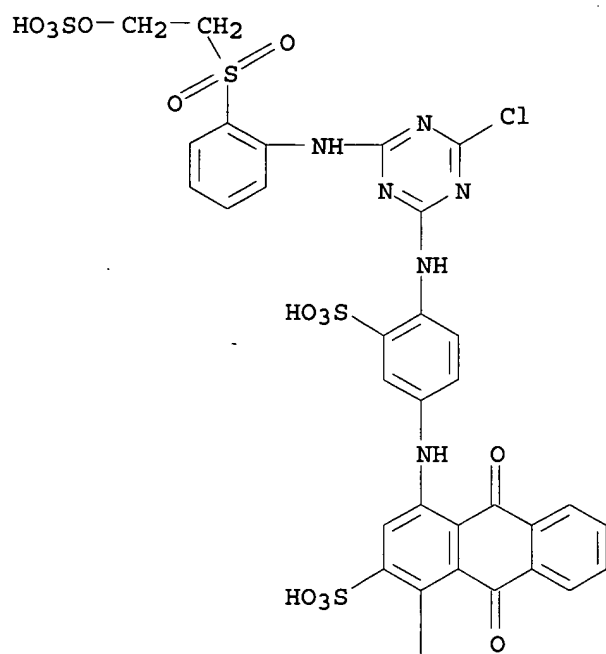
PAGE 2-A



●x Na

IT 82381-72-4  
 RL: MSC (Miscellaneous)  
 (dyes, for cotton and rayon and polyamide fibers, manufacture of)  
 RN 82381-72-4 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-chloro-6-[[2-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



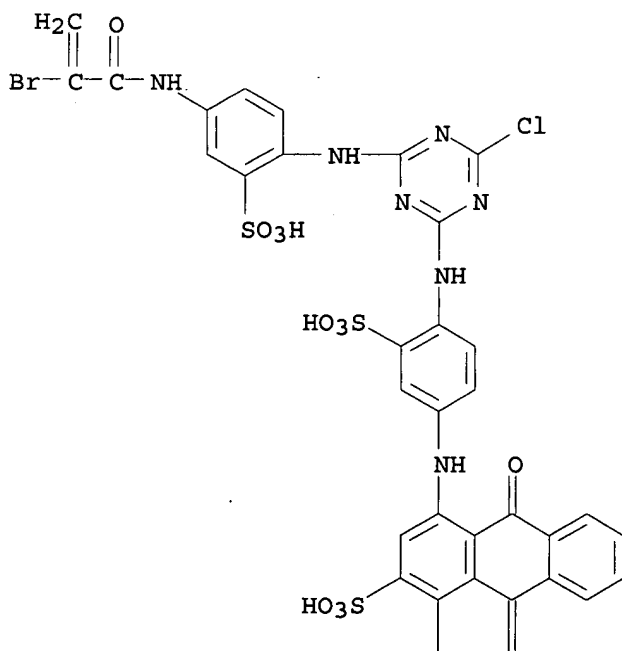
●x Na

L4 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1976:123403 CAPLUS  
 DN 84:123403  
 TI Fiber-reactive anthraquinone dyes  
 IN Shirosaki, Toshitaka; Yamada, Yasushi  
 PA Nippon Kayaku Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

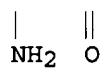
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50157422	A2	19751219	JP 1974-66564	19740613
PRAI	JP 1974-66564	A	19740613		

GI For diagram(s), see printed CA Issue.  
 AB The title compds. [I [58618-90-9] and II (R = CBr:CH<sub>2</sub> or CHBrCH<sub>2</sub>Br] are prepared from cyanuric chloride (III) [108-77-0], the appropriate substituted (aminoanilino)anthraquinone, and H<sub>2</sub>N(RCONH)C<sub>6</sub>H<sub>3</sub>SO<sub>3</sub>H. Thus, 19.5 parts III dissolved in 120 parts Me<sub>2</sub>CO was poured into 100 parts ice-water. A solution of 53.2 parts 1-amino-4-(3-amino-2,4,6-trimethyl-5-sulfoanilino)anthraquinone-2-sulfonic acid [24124-40-1] in 500 parts H<sub>2</sub>O was added at 0-5° while the pH was maintained at 4-6 with 10% Na<sub>2</sub>CO<sub>3</sub> solution. A solution of 35.3 parts 2,4-H<sub>2</sub>N(CH<sub>2</sub>:CBrCONH)C<sub>6</sub>H<sub>3</sub>SO<sub>3</sub>H [58557-59-8] in 400 parts H<sub>2</sub>O was then added and the mixture heated 3 hr at 45° and pH 4-7 to give I, fast blue on wool. Three II were similarly prepared  
 IT 58618-89-6P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)  
 RN 58618-89-6 CAPLUS  
 CN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[4-[[4-[(2-bromo-1-oxo-2-propenyl)amino]-2-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A





L4 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1968:437111 CAPLUS  
 DN 69:37111  
 TI Water-soluble fiber reactive anthraquinone dyes  
 PA Imperial Chemical Industries Ltd.  
 SO Fr., 5 pp.  
 CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1490242		19670728	FR 1966-73933	19660823
	DE 1644565			DE	
	US 3397207		19680813	US 1966-570735	19660808
PRAI	GB		19650823		
	GB		19660805		

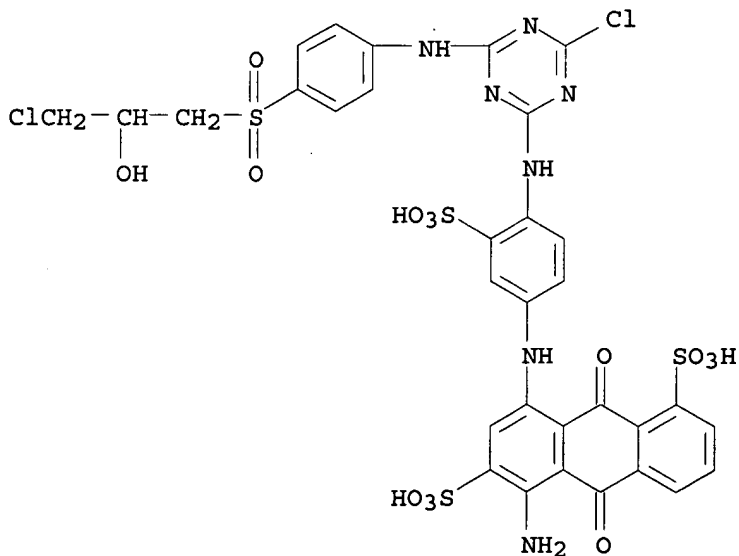
AB Compds. of structure I are light- and washfast dyes for cellulosic fibers. Thus, a solution of 9.2 parts tri-Na 1-amino-4-(4'-amino-anilino)anthraquinone-2,3',5-trisulfonate in 150 parts H<sub>2</sub>O was added during 20 min. to a stirred suspension of 2.8 parts cyanuric chloride in 100 parts H<sub>2</sub>O and 25 parts acetone at 0-5°. The mixture was stirred for 20 min. at constant pH (addition of 2N Na<sub>2</sub>CO<sub>3</sub>), clarified, and treated at 35-40° and pH 6-7 in 1 hr. with a solution of 3.6 parts 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>CH<sub>2</sub>CH(OH)CH<sub>2</sub>Cl in 40 parts acetone, kept at 45-60° for 6 hrs., treated with 15 parts NaCl, filtered, washed with 5% NaCl solution, and vacuum-dried at 20° to give a dye containing 2 atoms of hydrolyzable Cl/mol., greenish blue on cotton. Other I were similarly prepared (X, position of SO<sub>3</sub>Na and amino substituents on ring A, Y, Z, Q, W, and shade given): SO<sub>3</sub>Na, 3, 4, Cl, N, CONH, Cl, greenish blue; H, 4, 3, Cl, CCN, CONH, OSO<sub>3</sub>Na, reddish blue; H, 3, 4, SO<sub>3</sub>Na, N, S, Cl, blue; H, 4, 3, SO<sub>3</sub>Na, N, S, Cl, blue.

IT 16618-02-3P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)

RN 16618-02-3 CAPLUS

CN 1,6-Anthracenedisulfonic acid, 5-amino-8-[4-[[4-chloro-6-[p-[(3-chloro-2-hydroxypropyl)sulfonyl]anilino]-s-triazin-2-yl]amino]-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-, trisodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



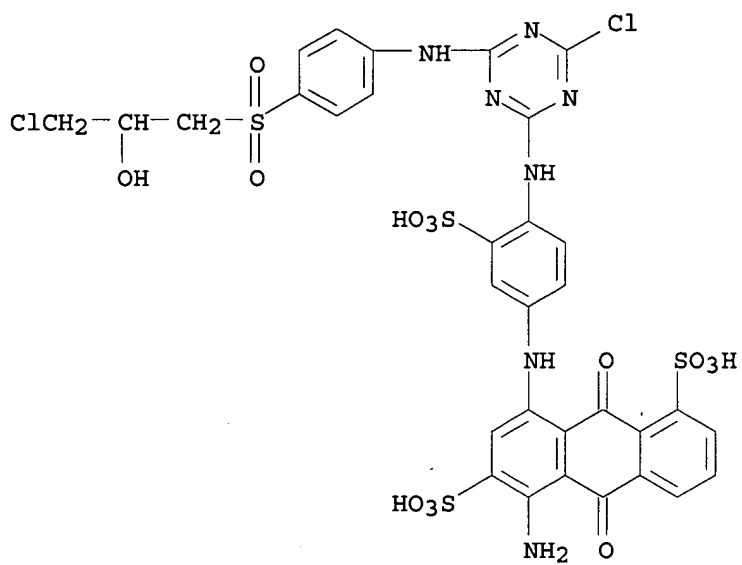
PAGE 2-A

●3 Na

L4 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1968:14084 CAPLUS  
 DN 68:14084  
 TI Fiber reactive anthraquinone dyes  
 IN Eckersley, Dennis; Barben, Ian K.  
 PA Imperial Chemical Industries Ltd.  
 SO Brit., 6 pp.  
 CODEN: BRXXAA  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 1086996		19671011	GB 1965-36026	19650823
GI	For diagram(s), see printed CA Issue.				
AB	<p>Water-soluble anthraquinone derivs. of the general formula I are prepared as reactive dyes for cellulose. In I, Q = N or CCN, R = SO<sub>3</sub>H or H, X = Cl, or SO<sub>3</sub>H, or NHCO, and Z = Cl or OSO<sub>3</sub>H. Thus, a solution of 9.2 parts solution of tri-Na 1-amino-4-(4-amino-3-sulfoanilino)anthraquinone-2,5-disulfonate (II) in 150 parts H<sub>2</sub>O is added over 20 min. to a stirred suspension of 2.8 parts cyanuric chloride (III) in 100 parts H<sub>2</sub>O and 25 parts Me<sub>2</sub>CO at 0-5°. The mixture is stirred for 20 min. at 0-5°, clarified, treated with 3.6 parts 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>CH<sub>2</sub>CHOHCH<sub>2</sub>Cl in 40 parts Me<sub>2</sub>CO at pH 6-7 stirred for 1 hr. at 35-40° and for 6 hrs. at 45-50° with addition of aqueous Na<sub>2</sub>CO<sub>3</sub> to maintain pH 6-7, treated with 15 parts NaCl, stirred for 1 hr., and filtered to give IV, which dyes cellulose in greenish blue shades of good fastness to light and washing. Similarly, other I are prepared (intermediates used and shade given): II, III, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CONHCH<sub>2</sub>CHOHCH<sub>2</sub>Cl, greenish-blue; 1-amino-4-(3-amino-4-sulfoanilino) anthraquinone-2-sulfonic acid (V), 5-cyano-2,4,6-trichloropyrimidine, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CONHCH<sub>2</sub>CHOHCH<sub>2</sub>OSO<sub>3</sub>H, reddish blue; 1-amino-4-(4-amino-3-sulfoanilino)anthraquinone-2-sulfonic acid, III, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SCH<sub>2</sub>CHOHCH<sub>2</sub>Cl (VI), blue; V, III, VI, blue.</p>				
IT	16618-02-3P				
	RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)				
RN	16618-02-3	CAPLUS			
CN	1,6-Anthracenedisulfonic acid, 5-amino-8-[4-[[4-chloro-6-[p-[(3-chloro-2-hydroxypropyl)sulfonyl]anilino]-s-triazin-2-yl]amino]-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-, trisodium salt (8CI) (CA INDEX NAME)				

PAGE 1-A



PAGE 2-A

● 3 Na

L4 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1963:73987 CAPLUS

DN 58:73987

OREF 58:12712d-h

TI Washfast dyes for textiles

PA Farbwerke Hoechst A.-G.

SO 20 pp.

DT Patent

LA Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 617323		19621107	BE	
	GB 1007752			GB	
	US 3223470		19651214	US 1962-191439	19620501
PRAI	DE		19610506		

GI For diagram(s), see printed CA Issue.

AB Cellulose, wool, silk, and polyamides are dyed with compds. of the general structure I, where Q is the residue of a water-soluble azo, anthraquinone, or phthalocyanine dye. Cyanuric chloride 18.4 in Me<sub>2</sub>CO 100 was added to crushed ice 400 parts with stirring. The mass was treated simultaneously with a solution of 3-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OSO<sub>3</sub>H 28.1 and NaOAc.3H<sub>2</sub>O (II) 19 in H<sub>2</sub>O 300 and a solution of II 14 in H<sub>2</sub>O 100 parts at 0-5° with stirring, stirred 1-2 hrs. until a sample no longer contained diazotizable compound, treated with a neutral solution of 2.5,7-H<sub>2</sub>N(HO)C<sub>10</sub>H<sub>5</sub>SO<sub>3</sub>H 23.9 and anhydrous Na<sub>2</sub>CO<sub>3</sub> 5.5 in H<sub>2</sub>O 250 followed by II 18 parts, gradually allowed to reach room temperature, stirred 20 hrs., treated with 40 parts II, coupled at room temperature with 17.3 parts 2-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H as the diazonium salt, stirred

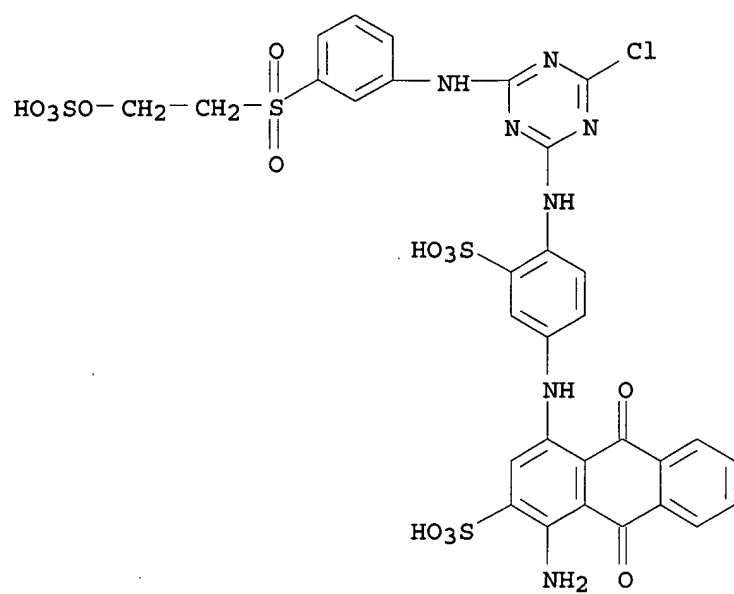
several

hrs., and treated with NaCl to give I (m-HO<sub>3</sub>SOCH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>, Q = 1,2,3,6-HO-(HO<sub>3</sub>S) (ogr;-HO<sub>3</sub>SC<sub>6</sub>H<sub>4</sub>N:N)C<sub>10</sub>H<sub>4</sub>), a dark powder, dyeing cotton yarn in fast orange shades. Similarly, other I were prepared (position of sulfone substituent, QNH<sub>2</sub>, and shade given): 3, 1,8,3,-6,7-H<sub>2</sub>N(HO) (HO<sub>3</sub>S) 2C<sub>10</sub>H<sub>3</sub>N:NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H-2, orange; 3, 1,8,-3,6,7-H<sub>2</sub>N(HO) (HO<sub>3</sub>S) 2C<sub>10</sub>H<sub>3</sub>N:NC<sub>6</sub>H<sub>2</sub>(Cl) (CO<sub>2</sub>H)SO<sub>3</sub>H - 4,5,2, red; 4, 1,8,6,7-H<sub>2</sub>N(HO) (HO<sub>3</sub>S) C<sub>10</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H - 2, red; 4, 1,3,7,2-HO (HO<sub>3</sub>S) (HO<sub>3</sub>SCH<sub>2</sub>CH<sub>2</sub>CONH) C<sub>10</sub>H<sub>4</sub>N:NC<sub>6</sub>H<sub>3</sub>-(NH<sub>2</sub>)SO<sub>3</sub>H-4,2, ruby-red; 4, 1,8,3,6,7-BzNH (HO) (HO<sub>3</sub>S) 2-C<sub>10</sub>H<sub>3</sub>N:NC<sub>6</sub>H<sub>3</sub>(NH<sub>2</sub>)SO<sub>3</sub>H-5,2, bluish red; 4, 1,8,4,6,7-H<sub>2</sub>N- (HO) (HO<sub>3</sub>S) 2C<sub>10</sub>H<sub>3</sub>N:NC<sub>5</sub>H<sub>4</sub>SO<sub>3</sub>H-2, red; 4, Cu complex of 6,1,3,2-H<sub>2</sub>N(HO) (HO<sub>3</sub>S) C<sub>10</sub>H<sub>4</sub>N:NC<sub>5</sub>H<sub>3</sub>(OH)SO<sub>3</sub>H-2,5, ruby-red; 3, 1-amino-(4-(amino-3-sulfoanilino)-2-anthraquinone-sulfonic acid, greenish blue; 4, Cu N,N',N'',N'''-tetrakis(4-amino-2-sulfophenyl)phthalocyaninetetrasulfonamide, turquoise blue; 4, 1,8,4,6,7-(XCONH) (HO) (HO<sub>3</sub>S) 2C<sub>10</sub>H<sub>3</sub>N:NC<sub>6</sub>H<sub>3</sub>(NH<sub>2</sub>)-SO<sub>3</sub>H-5,2 [X unspecified], brilliant red; 4, 6,1,3,2-H<sub>2</sub>N(HO)-(HO<sub>3</sub>S)C<sub>10</sub>H<sub>4</sub>N:NC<sub>5</sub>H<sub>3</sub>(Cl)SO<sub>3</sub>H, scarlet.

IT 104442-83-3, 2-Anthracenesulfonic acid, 1-amino-4-[4-[[4-chloro-6-[m-[(2-hydroxyethyl)sulfonyl]anilino]-s-triazin-2-yl]amino]-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-, hydrogen sulfate (preparation of)

RN 104442-83-3 CAPLUS

CN 2-Anthracenesulfonic acid, 1-amino-4-[4-[[4-chloro-6-[m-[(2-hydroxyethyl)sulfonyl]anilino]-s-triazin-2-yl]amino]-3-sulfoanilino]-9,10-dihydro-9,10-dioxo-, hydrogen sulfate (7CI) (CA INDEX NAME)



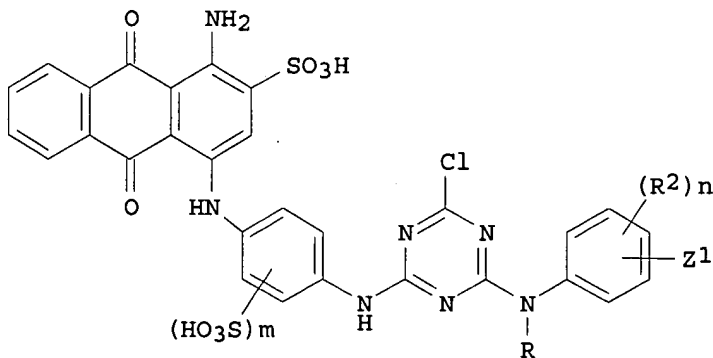
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L5           1 SEA FILE=CAPLUS ABB=ON PLU=ON "SCHMIEDL JURGEN"/AU  
L6           2 SEA FILE=CAPLUS ABB=ON PLU=ON "SCHOEHN DAMIEN"/AU  
L7           146 SEA FILE=CAPLUS ABB=ON PLU=ON ("KOCH KLAUS"/AU OR "KOCH  
              KLAUS D"/AU OR "KOCH KLAUS DIETER"/AU)  
L8           148 SEA FILE=CAPLUS ABB=ON PLU=ON L5 OR L6 OR L7  
L9           2 SEA FILE=CAPLUS ABB=ON PLU=ON L8 AND (ANTHRAQ? OR ANTHRAC?)

=> d 1-2 bib abs

L9 ANSWER 1 OF 2 CAPLUS . COPYRIGHT 2006 ACS on STN  
 AN 2004:493794 CAPLUS  
 DN 141:55763  
 TI Reactive dyes for dyeing or printing synthetic fibers and their preparation  
 IN Schmiedl, Juergen; Schoehn, Damien; Koch, Klaus  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 27 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004050769	A2	20040617	WO 2003-EP50878	20031124
	WO 2004050769	A3	20050526		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003294033	A1	20040623	AU 2003-294033	20031124
	EP 1567599	A2	20050831	EP 2003-789448	20031124
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016841	A	20051018	BR 2003-16841	20031124
	CN 1720299	A	20060111	CN 2003-80104773	20031124
	JP 2006508225	T2	20060309	JP 2004-556327	20031124
	US 2006016027	A1	20060126	US 2005-536679	20050527
PRAI	EP 2002-406046	A	20021202		
	WO 2003-EP50878	W	20031124		
OS	MARPAT 141:55763				
GI					



AB The reactive dyes I (R1 = (un)substituted C1-4 alkyl; R2 = halogen, C1-4 alkyl, C1-4 alkoxy or sulfo; Z1 = -SO2Y, -CONH(CH2)kSO2Y, -NHCOCH(Hal)CH2Hal, -NHCOC(Hal):CH2; Hal = chlorine or bromine; Y = vinyl, -CH2CH2U; U = a group removable under alkaline conditions; k = 2-6, n = 0-2; m = 0 or 1) are suitable for dyeing or printing cellulose-containing fiber materials, preferably natural or synthetic polyamide fibers to give good fastness properties.





L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:40189 CAPLUS  
 DN 138:91393  
 TI Trichromic dyeing or printing of synthetic polyamide materials and reactive azo dyes therefor  
 IN Schmiedl, Juergen; Koch, Klaus; Mundle, Wolfgang; Gruener, Franz  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO Eur. Pat. Appl., 19 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1275700	A2	20030115	EP 2002-405560	20020704
	EP 1275700	A3	20030716		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	US 2003097721	A1	20030529	US 2002-192092	20020710
	CN 1399032	A	20030226	CN 2002-140954	20020711
	BR 2002002677	A	20030506	BR 2002-2677	20020711
	JP 2003096677	A2	20030403	JP 2002-203845	20020712
	US 2004211013	A1	20041028	US 2004-847096	20040517
	US 6930179	B2	20050816		
PRAI	CH 2001-1279	A	20010712		
	CH 2001-1987	A	20011030		
	US 2002-192092	A3	20020710		

OS MARPAT 138:91393

AB Synthetic polyamide fibers are subjected to trichromic dyeing or printing using (a) at least one red chlorotriazine/vinyl sulfone sulfonaphthol azo dye, (b) at least one yellow or orange chlorotriazine/vinyl sulfone disulfonaphthalene azo dye, chlorotriazine/vinyl sulfone hydroxypyrimidinone azo dye; and/or chlorotriazine/vinyl sulfone sulfonaphthalene disazo dye, and (c) at least one blue chlorotriazine/vinyl sulfone anthraquinone dye. The dyeings show good evenness and no dichroism. In an example, 4-(2-sulfatoethylsulfonyl)aniline was condensed with cyanuric chloride and the product was condensed with 6-amino-5-(4-amino-2-sulfophenylazo)-4-hydroxy-2-naphthalenesulfonic acid to give a red dye, which was used in conjunction with yellow and blue reactive dyes on nylon 66.

=> d his full

(FILE 'HOME' ENTERED AT 12:01:24 ON 01 AUG 2006)

FILE 'REGISTRY' ENTERED AT 12:01:35 ON 01 AUG 2006

L1 STRUCTURE UPLOADED

D

L2 3 SEA SSS SAM L1

D SCAN

L3 17 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 12:03:08 ON 01 AUG 2006

L4 9 SEA ABB=ON PLU=ON L3

D QUE L4 STAT

D 1-9 BIB ABS HITSTR

E SCHMIEDL JURGEN/AU

L5 1 SEA ABB=ON PLU=ON "SCHMIEDL JURGEN"/AU

E SCHOEHN DAMIEN/AU

L6 2 SEA ABB=ON PLU=ON "SCHOEHN DAMIEN"/AU

E KOCH KLAUS/AU

L7 146 SEA ABB=ON PLU=ON ("KOCH KLAUS"/AU OR "KOCH KLAUS D"/AU OR  
"KOCH KLAUS DIETER"/AU)

L8 148 SEA ABB=ON PLU=ON L5 OR L6 OR L7

L9 2 SEA ABB=ON PLU=ON L8 AND (ANTHRAQ? OR ANTHRAC?)

D QUE L9 STAT

D 1-2 BIB ABS

FILE HOME

FILE REGISTRY

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